GN ReSound

USER GUIDE

Danalogic 6 BTE
6070-DVI
6080-DVI

DANALOGIC/6

DANALOGIC 6 BEHIND-THE-EAR PERSONAL HEARING SYSTEM

Congratulations with your new fully-digital GN ReSound hearing instrument!

This booklet describes the functionality of all BTE (Behind-The-Ear) models in the Danalogic 6 product line. The functionality depends on the model; your hearing care professional will highlight the features of your particular hearing instrument.

GN ReSound's advanced technology and customized programmes, selected by your hearing care professional, will bring the best possible hearing solution to your family life, and your professional and social activities.

Your hearing instrument has been adjusted to your individual hearing loss. Please familiarize yourself with the information in this booklet. Proper understanding and use of your new GN ReSound hearing instrument will allow you to derive maximum hearing benefit.

This instruction covers the following Danalogic 6 BTE products: 6070-DVI and 6080-DVI.

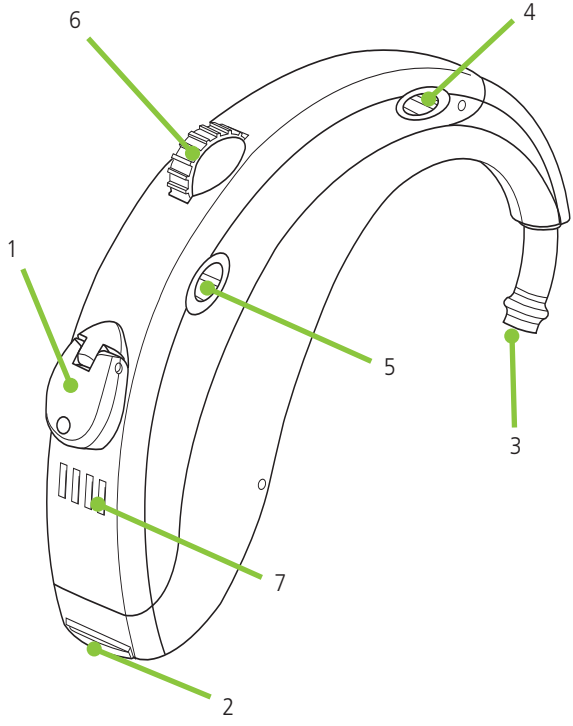
Danalogic 6 is a trademark of GN ReSound.

Contents

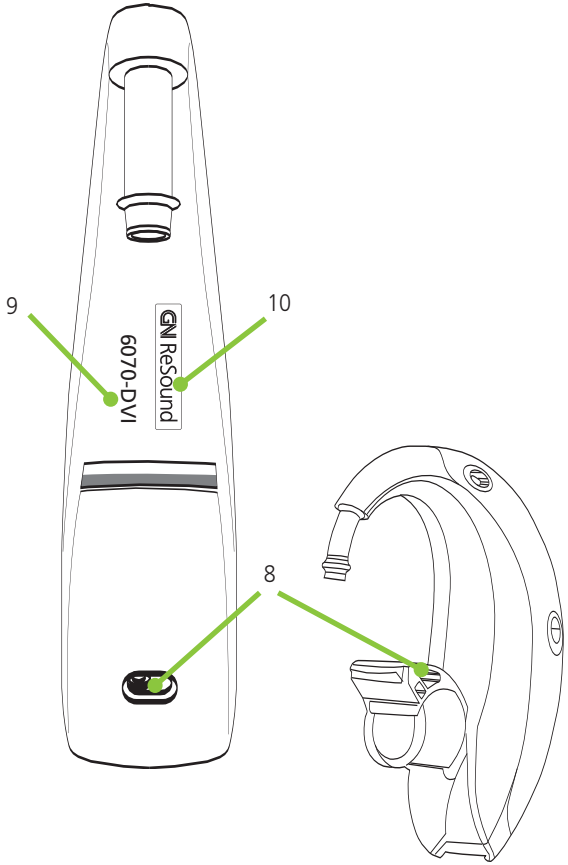
	page
Your Danalogic 6 Hearing Instrument	4
Programme Selector	6
Your Programme Environments	6
Telecoil	7
Directionality	7
Stand-by Function	7
On/Off Function	7
SmartStart	8
Volume Control	8
Direct Audio Input (DAI)	9
Low Battery Warning	9
Inserting and removing the Instrument	10
Changing the Battery	12
Battery Warning Information	13
Daily Maintenance	14
Cleaning the Ear Mould and replacing Sound Outlet Filter	15
Sound Outlet Filter	16
How To Remove Filter	16
How To Place Filter On Hook	16
Cleaning The FlexTube And Dome	17
How To Mount The Tulip Dome	18
Telephone Use	20
Using Assistive Listening Systems	21
Repairs	21
Troubleshooting Guide	22
General Precautions	24
Technical Data	24
Key Word Index	25

Your Danalogic 6 Hearing Instrument

1. Programme Selector
2. Battery Compartment & On/Off Switch
3. Sound Outlet
4. 1st Microphone Sound Inlet
5. 2nd Microphone Sound Inlet
6. Volume Control (optional)
7. Direct Audio Input (DAI) (optional)



8. Left/Right indicator and battery lock (Right=Red, Left=Blue)
9. Model
10. Manufacturer

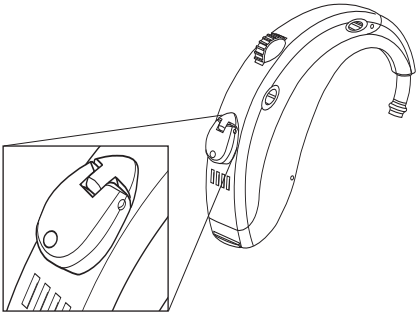


Programme Selector

Your hearing care professional has most likely programmed multiple programmes into your instrument. You can select programmes simply by depressing the programme selector once. You will then hear one or more "beeps", indicating which programme you have selected. Your hearing instrument will switch programmes as follows:

Examples:
3 programmes: 1→ 2, 2 → 3, 3 → 1
With optional telecoil: 1 → 2, 2 → 3, 3 → T, T → 1
With telecoil
plus microphone: 1 → 2, 2 → 3, 3 → MT, MT → 1

You can always return to programme 1 by turning your instrument off and then on again or by placing it in standby mode and then returning to its operating mode.



Your Programme Environments

Programme	Description of when to use

Telecoil:

See section "Telephone Use" for a detailed description of this function.

Danalogic 6 BTE instruments are all equipped with a telecoil in their standard version.

Directionality

The Danalogic 6 instrument is equipped with two microphones and thus offer directionality. That is a function which enables better speech understanding in noisy situations. This function focuses on speech in front of you while sounds coming from the back or the side are suppressed. Please ask your hearing care professional about this automatic feature.

Stand-by Function

To put the instrument into stand-by mode, hold down the programme selector for 5 seconds. You will hear a series of beeps, and the device is now in stand-by mode. Before returning to functional mode, you will need to wait approximately 5 seconds. After waiting, press the programme selector down once. Please note that the instrument is using a small amount of power when it is in stand-by mode.

On/Off Function

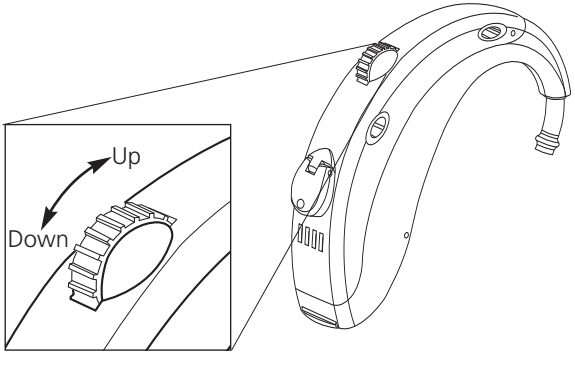
Your Danalogic 6 BTE is equipped with an on/off switch integrated into the battery compartment. When the battery compartment is fully closed, the instrument is turned on in its functional mode and programme 1 will be activated. To turn the instrument off, press the tab on the base of the instrument with your fingertip. The battery compartment then snaps partly open and the instrument is turned off. Whenever you are not wearing the instrument, remember to turn it off to reduce battery consumption.

SmartStart

Smart Start allows you to insert the instrument in the ear without annoying sounds like squealing. It delays the switch on time 10 seconds after closing the battery compartment, and is indicated by a beep every second after closing the battery compartment.

Volume Control

Danalogic 6 offers a volume control allowing you to turn the volume up and down. When wearing the instrument, you can increase the volume by turning the volume control wheel up, and reduce volume by turning it down.

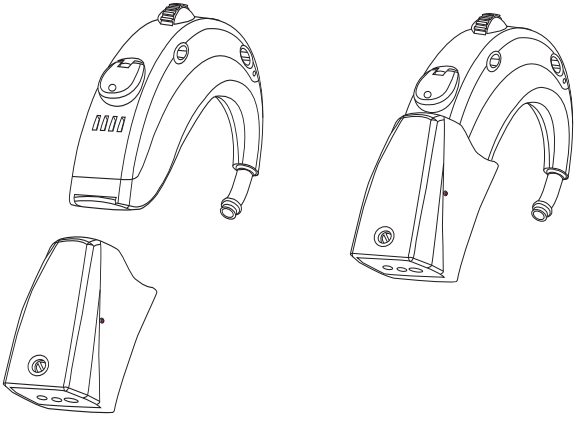


For each volume step, you will hear a "beep" signal indicating the change. If you reach the upper or lower limit of the volume control range, there will be a different type of "beep" signal with a lower pitch.

Please note that your instrument has been fitted by your hearing care professional and that your hearing loss has required a certain amount of amplification. This means that you may not be able to increase the volume as much as you can decrease it.

Direct Audio Input (DAI)

Danalogic 6 offers you the possibility of direct, undisturbed connection to facilities such as television, radio and remote microphone via the Direct Audio Input socket. Often, this will improve sound quality. The sound source is connected to your instrument with a cable or a wireless FM system to the audio shoe. The audio shoe will connect with a "click" to the hearing instrument and switch to Direct Audio Input automatically.



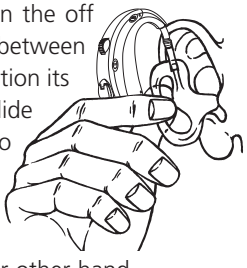
Low Battery Warning

When the battery voltage/power decreases to a low level, the instrument will inform you by a soft low-battery-warning signal (beep-beep). The signal indicates you should replace the battery, and for this reason we recommend that you always have a spare battery. The battery-warning signal will be repeated every 5-10 minutes until the battery runs out of power. The instrument will then automatically switch off.

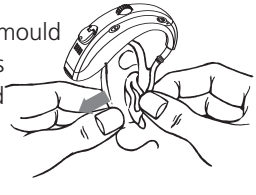
Inserting and removing the instrument (6070 and 6080 - with ear mould)

Inserting the instrument

- With the battery door opened in the off position take the ear mould between thumb and index finger and position its 'point' in your ear canal. Now, slide the ear mould all the way into your ear with a gentle, twisting movement. Insertion can be easier if you gently pull your auricle backwards with your other hand.



- Turn the top-part of the ear mould gently backwards and forwards so that it fits behind the fold of skin above your ear canal.



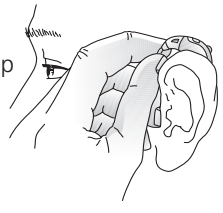
- Place the hearing instrument behind your ear. Move the ear mould up and down and press gently to ensure it is positioned correctly in the ear. Opening and closing your mouth can ease insertion. You will feel when the ear mould is positioned correctly.

- When correctly positioned switch on your instrument by closing the battery door.

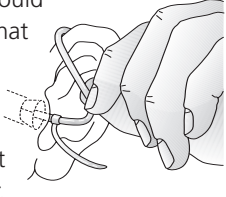
Inserting and removing the instrument (6070 and 6080 with FlexTube)

Inserting the instrument

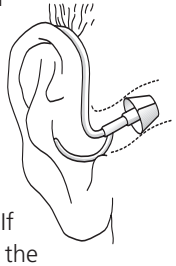
- Hang the instrument over the top of the ear.



- Grasp the FlexTube where it bends and push the dome into your ear canal. The dome should be placed far enough into the ear that the sound tube lies flush with your head. When the dome is placed appropriately, you should not see the FlexTube sticking out when you look directly into a mirror.



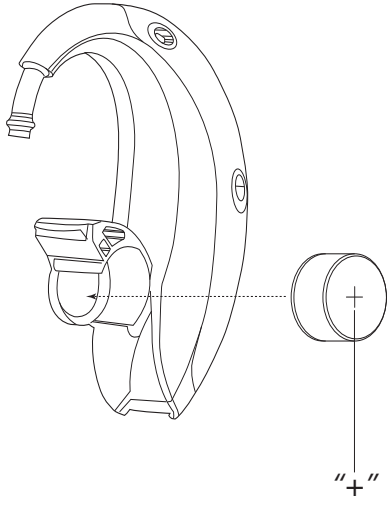
- If the device whistles, the most likely reason is that the dome is not placed correctly in the ear canal. Other reasons can be buildup of earwax in the ear canal, or that the sound tube connection to the instrument has become loose, in which case the sound tube must be changed. It is also possible that the instrument settings are not optimal. If you have ruled out other reasons for the instrument squealing, it is recommended to contact your hearing care professional.



Changing the Battery

Open the battery compartment by turning the instrument off, and then using your fingernail to open it completely. After removing the old battery, insert the new one with the "+" (flat) side facing the "+" on the battery door. It should fit in like a puzzle piece. The battery door should close very easily. Never use force to close the door as this may damage your hearing instrument.

Always use a size 13 Zinc-Air battery. Please note that if the battery is weak, the hearing instrument performance will be reduced. Removing the battery when you are not wearing the instrument will help prevent corrosion of the battery contacts.



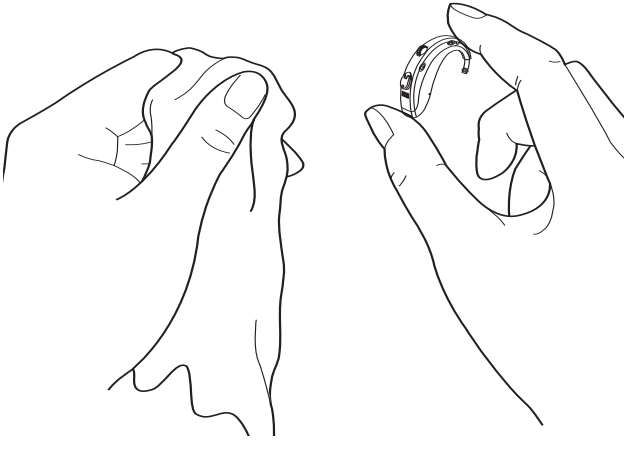
Battery Warning Information

Batteries contain dangerous substances and should be disposed of carefully in the interest of your safety and for the environment.

- Do NOT attempt to recharge batteries which are not specifically designated rechargeable as they may leak or explode.
- Do NOT attempt to dispose of batteries by burning them.
- Keep batteries away from small children and pets.
- Do NOT place batteries in your mouth.

If swallowed, see a physician immediately.

Daily Maintenance



Keep your hearing instrument clean and dry. Wipe the case with a soft cloth or tissue after use to remove grease or moisture. If the instrument has been exposed to high humidity or perspiration, enclose it (with the ear mould) in a sealed container together with a drying agent (desiccant) overnight. Consult your hearing care professional concerning which drying agent to use.

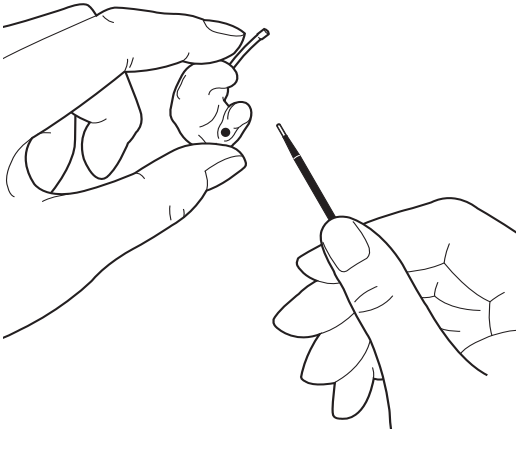
To avoid the need for unwarranted repairs:

- Never immerse the instrument in water or other liquids since this may cause permanent damage to the circuitry.
- Protect your hearing instrument from rough handling, and avoid dropping it on hard surfaces or floors.
- Do not leave the instrument in or near direct heat or sunlight since excessive heat can damage the instrument or deform the casing.

Cleaning the Ear Mould and replacing Sound Outlet Filter

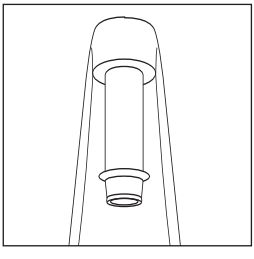
The ear mould should be cleaned regularly. Remove the ear mould and the silicone tubing from the hearing instrument before you clean it. Lukewarm water should be enough to clean wax off the ear mould. If ear wax is stuck in the sound canal of the ear mould, the cleaning loop or a syringe with lukewarm water can easily be used to "push" the wax out. Be sure to thoroughly dry the ear mould and its tubing before reconnecting it to the hearing instrument. Blow gently through the tubing to remove moisture trapped inside.

The silicone tubing connecting the ear mould to the hearing instrument should be changed if it becomes stiff or brittle.



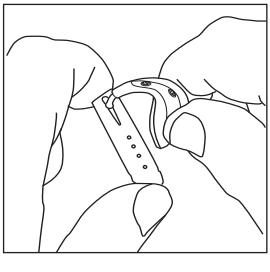
Sound Outlet Filter

Your Danalogic 6 hearing instrument is equipped with a filter. This filter is located at the top of the sound outlet and prevents moisture and debris from getting into the hearing instrument. If the hearing instrument seems to have lost power and changing the battery does not help, the filter may be blocked, and needs to be changed. See instructions below:

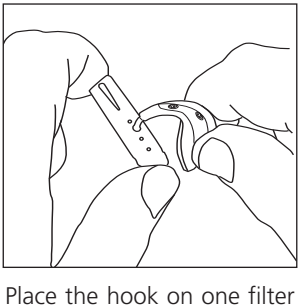


How to remove filter

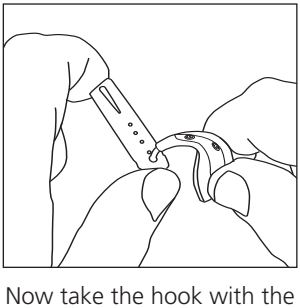
Place the hook of the instrument into the long groove of the filter stick. Pull down and the filter will be removed.



How to place filter on hook



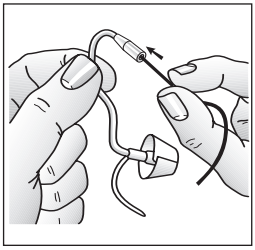
Place the hook on one filter and push gently. Rock the hook back and forth until the filter is released.



Now take the hook with the filter attached and press it in the hole at the end of the filter. The filter will now be fastened.

Cleaning the FlexTube and dome

The FlexTube feeds the amplified sound from the hearing instrument into the ear. It is important that the FlexTube and the dome fit correctly into your ear. If the FlexTube or the dome irritate your ear in any way and prevent you from wearing your hearing instrument, please contact your hearing care professional. You should never attempt to modify the shape of the FlexTube yourself.

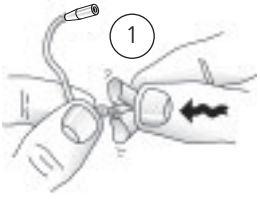


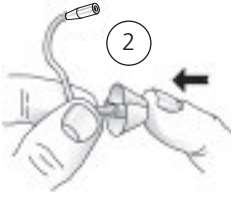
The FlexTube and the dome should be cleaned regularly. Remove the FlexTube from the instrument before cleaning by unscrewing it. Use a damp cloth to clean the FlexTube and dome on the outside and use the black cleaning rod to "push" any debris out of the FlexTube. The cleaning rod should be inserted where the FlexTube attaches to the instrument and pushed all the way through the sound tube and out through the dome. It is not recommended to submerge or rinse the FlexTube and dome with water, as there is a risk that a water drop may become lodged in the FlexTube. If this should occur, it will prevent sound coming through the FlexTube, and may be harmful for the instrument's electronics.

The FlexTube and dome should be changed every third month or sooner if the FlexTube becomes stiff or brittle. We recommend that you have your hearing care professional change the dome for you. If your hearing care professional instructs you to change the domes yourself, make sure that they are securely fastened to the sound tube before inserting them in your ear. A failure to change the domes in accordance with the instructions could result in injury.

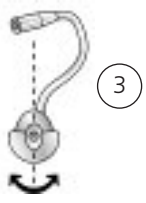
How to mount the Tulip-Dome

(1) + (2) The Tulip-Dome is mounted on the FlexTube by pushing it over the grooves on the FlexTube.

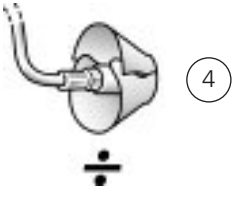


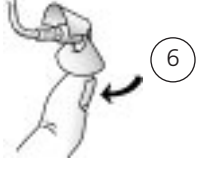


The Tulip-Dome should be directed with the sound outlet hole facing either down towards your shoulders or up towards your hair. (3) The sound outlet hole can turn both ways; the direction of the sound outlet hole affects the length of the sound tube according to the entrance of your ear canal. Please ask your hearing care professional which way the sound outlet hole should turn in your ear.



The Tulip-Dome consists of two "leaves" and it is important that the largest "leaf" is the outermost "leaf" (4). This can easily be done by pushing the "leaves" away from the FlexTube with your forefinger and middle finger (5). This will make the large "leaf" bend forward. Then you push it back and it will be placed on top of the smaller "leaf" (6). Now the Tulip-Dome is ready for insertion (7).





Telephone Use

Your hearing instrument is equipped with an induction coil (telecoil) which picks up magnetic emanations from a hearing instrument compatible telephone. Your hearing care professional can activate the telecoil. By selecting the telecoil programme, the hearing instrument will only pick up the sounds coming from the telephone.

When using the telecoil programme, the receiver of the telephone should be held as shown in the drawing. You may need to move the handset around slightly to find the best reception.

If you do not wish to have a telecoil programme, you may still use the phone while wearing your hearing instrument. Many hearing instruments will whistle (feedback) when in close proximity to a telephone. To reduce the potential for this problem, your hearing instrument is equipped with an adaptive digital feedback suppression (Stabilizer DFS) system which allows for use of the telephone while greatly reducing the chance of feedback. Hold the phone close to the top microphone of the hearing instrument, but not directly on it. If there is feedback, it may take a few seconds for the instrument to adapt.

Using the telephone, while wearing your hearing instrument, may require some practice.

Using Assistive Listening (tele-loop) Systems

Many gathering places are equipped with assistive listening (tele-loop) systems, e.g. in schools, theatres and houses of worship. To take advantage of a tele-loop system, select the telecoil programme. When the telecoil programme has been selected, you will be able to hear a clean sound signal via the tele-loop system. If the instrument goes dead in the telecoil programme, this may be because the loop system is not operating. If a school, theater or house of worship does not have a tele-loop system, try and sit as close as possible to the front and use one of the microphone programmes.

Repairs

If your hearing instrument malfunctions, it must be repaired by a qualified technician. Do not attempt to open the case of the hearing instrument since this would invalidate the warranty. If your GN ReSound hearing instrument requires service, please contact your hearing care professional for assistance.

TROUBLESHOOTING GUIDE

SYMPTOM	CAUSE
No sound	• Not turned on • Dead battery • Battery improperly inserted • Blocked ear mould • Blocked sound outlet filter
Not loud enough	• Loose ear mould • Blocked ear mould • Change in hearing • Excessive ear wax • Blocked sound outlet filter • Volume set too low
Whistles	• Loose ear mould • DFS needs re-initialization
Sound not clear or distorted	• Weak battery • Poorly fitting ear mould • Hearing instrument damaged • Hearing instrument settings not optimal

If there are any other problems not mentioned in this guide, please contact your hearing care professional.

POSSIBLE REMEDY
• Turn on • Replace battery • Insert battery properly • Clean ear mould blockage • Change filter or consult your hearing care professional
• Reinsert carefully • Clean ear mould • Consult your hearing care professional • Consult your physician • Change filter or consult your hearing care professional • Consult your hearing care professional
• Remove and reinsert • Consult your hearing care professional
• Replace battery • Consult your hearing care professional • Consult your hearing care professional • Consult your hearing care professional

General Precautions

- Consult a physician if you find a foreign object in your ear canal, if you experience skin irritation or if excessive ear wax accumulates with the use of the hearing instrument.
- Different types of radiation, e.g. from NMR, MRI or CT scanners, may damage the hearing instrument. Therefore, do not wear the hearing instrument during these or other corresponding scanning procedures. Other types of radiation (burglar alarms, room surveillance systems, radio equipment, mobile telephones, etc) contain less energy and will not damage the hearing instrument. They could however momentarily affect the sound quality or create strange sounds from the hearing instruments.
- Warning: Do not wear the hearing instrument in mines or other explosive areas, unless those areas are certified for hearing instrument use.
- Warning to hearing care practitioners
  Special care should be exercised in selecting and fitting hearing instrument(s) whose maximum sound pressure level exceeds 132 dB SPL with an IEC 60711: 1981 occluded ear simulator, because there may be a risk of impairing the remaining hearing of the hearing instrument user.

Technical Data

Maximum Output (2cc Coupler / IEC 60118-7)

6070-DVI	127 dB SPL (Typical)
6080-DVI	135 dB SPL (Typical)

Key Word Index

Assistive listening (tele-loop) systems	21
Battery change	12
Battery compartment	4,8,12
Cerumen/earwax	15
Cleaning the instrument	14
Directionality	7
Direct audio input (DAI)	9
Ear Mould / Dome	15,17,18,19
Environmental programmes	6
Low battery warning	9
Maintenance	14
On/off switch	4,7
Programme Selector	4,6
SmartStart	8
Sound outlet filter	16
Stand-by mode	7
Technical data	24
Telecoil use	6,7,20,21
Telephone use	20
Troubleshooting guide	22-23
User operated controls	4,6,7,8,9
Volume control	8

Please ask your local hearing care professional concerning disposal of your hearing instrument

GN ReSound

Worldwide headquarters:
GN ReSound A/S
Lautrupbjerg 9 • P.O. Box 130
DK-2750 Ballerup, Denmark
Tel.: +45 45 75 11 11
Fax: +45 45 75 11 19
www.gnresound-group.com

United Kingdom
GN ReSound Ltd.
1 Landscape Close
Weston Business Park
Weston-on-the-Green
Oxon OX25 3SX
Tel.: 0 1869 343 500
Fax: 0 1869 343 466
www.gnresound.co.uk

Australia
GN ReSound Pty. Ltd.
Unit R1 Regent Park Estate
391 Park Road
Regent Park NSW 2143
Tel.: 02 9743 9707
Fax: 02 9743 7472
www.gnresound.com.au

New Zealand
GN ReSound (NZ) Ltd.
12 Parkway Drive
Mairangi Bay
Auckland
Tel.: (free) 0800 900 126
Fax: (free) 0800 007 695
www.gnresound.co.nz

Any issues relating to the EU Medical Device Directive 93/42/EEC should be directed to GN ReSound A/S.

CE 0297

1633381-GB-06.05 Rev. B